

Title (en)

DISPLAY DEVICE USING SEMICONDUCTOR LIGHT EMITTING DEVICE AND METHOD FOR MANUFACTURING THE SAME

Title (de)

ANZEIGEVORRICHTUNG MIT LICHEMITTIERENDEM HALBLEITERBAUELEMENT UND VERFAHREN ZUR HERSTELLUNG DAVON

Title (fr)

DISPOSITIF D'AFFICHAGE UTILISANT UN DISPOSITIF ÉLECTROLUMINESCENT À SEMICONDUCTEUR ET PROCÉDÉ POUR LE FABRIQUER

Publication

EP 3871262 A4 20221102 (EN)

Application

EP 19875429 A 20191008

Priority

- KR 20180128473 A 20181025
- KR 2019013161 W 20191008

Abstract (en)

[origin: WO2020085679A1] A display device includes: a substrate; a plurality of semiconductor light emitting devices arranged on the substrate; a first electrode arranged on the substrate, and electrically connected to the semiconductor light emitting devices at a lower side of the semiconductor light emitting devices; a second electrode electrically connected to the semiconductor light emitting devices at an upper side of the semiconductor light emitting devices; and a plurality of partition walls arranged at an upper side of the semiconductor light emitting devices, and arranged between the semiconductor light emitting devices, wherein the substrate is formed of a light transmissive material, and wherein the partition walls have a width decreased as they become far from the substrate.

IPC 8 full level

H01L 27/15 (2006.01); **H01L 33/00** (2010.01); **H01L 33/38** (2010.01); **H01L 33/48** (2010.01); **H01L 33/50** (2010.01); **H01L 33/62** (2010.01)

CPC (source: EP KR US)

H01L 25/0753 (2013.01 - EP); **H01L 27/156** (2013.01 - KR US); **H01L 33/005** (2013.01 - KR); **H01L 33/0095** (2013.01 - US); **H01L 33/38** (2013.01 - KR US); **H01L 33/483** (2013.01 - KR); **H01L 33/50** (2013.01 - KR); **H01L 33/60** (2013.01 - EP); **H01L 33/62** (2013.01 - EP KR US); **H01L 33/504** (2013.01 - EP); **H01L 2933/0058** (2013.01 - EP)

Citation (search report)

- [A] EP 3316301 A1 20180502 - LG DISPLAY CO LTD [KR]
- [XY] US 2017294424 A1 20171012 - JEONG CHANGYONG [KR]
- [Y] US 2016043061 A1 20160211 - RHEE BYUNGJOON [KR]
- See references of WO 2020085679A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

WO 2020085679 A1 20200430; EP 3871262 A1 20210901; EP 3871262 A4 20221102; KR 102111461 B1 20200515; KR 20200046818 A 20200507; US 2021408333 A1 20211230

DOCDB simple family (application)

KR 2019013161 W 20191008; EP 19875429 A 20191008; KR 20180128473 A 20181025; US 201917288180 A 20191008